

AMENDMENTS TO THE CLAIMS:

The following Supplemental Listing of Claims replaces all previous claims and listings of claims in the application:

SUPPLEMENTAL LISTING OF CLAIMS:

1. (Currently Amended) An elongated truss boom adapted to be flattened and coiled to a stowed configuration comprising:

a plurality of longerons arranged parallel to and equidistant from a longitudinal axis of the truss boom forming a polygonal cross section normal to the longitudinal axis;

a plurality of fixed battens; and

a plurality of moveable battens;

wherein the fixed battens and the moveable battens are coupled to the longerons to form a plurality of polygonal frame members which are located in a series of planes normal to the longitudinal axis;

wherein a first and a second longeron of the plurality of longerons are interconnected with at least one of the fixed battens to form a first rigid ladder shaped structure,

wherein a third and a fourth longeron of the plurality of longerons are interconnected with at least one other of the fixed battens to form a second rigid ladder shaped structure opposing the first rigid ladder shaped structure,

~~wherein the fixed battens interconnect the longerons to form two opposing rigid ladder shaped structures which are~~ the first rigid ladder shaped structure being moveably connected by movable battens to the second rigid ladder shaped structure; and

~~wherein a first pair of the first and second longerons on one of said two opposing ladder shaped structures are spaced apart from each other less than a second pair of the third and fourth longerons are spaced apart from each other longerons on a second of said two opposing ladder shaped structures, so that when the moveable battens are closed and the ladder shaped structures are together when the truss boom is flattened~~ the first ladder shaped structure nests between the third and fourth longerons of the second ladder shaped structure and the first, second, third and fourth ~~the four~~ longerons are substantially coplanar to permit compact stowing.

2. (Canceled)

3. (Previously Presented) An elongated truss boom as claimed in claim 1, further comprising a plurality of diagonals that interconnect adjacent polygonal frame members.

4. (Original) An elongated truss boom as claimed in claim 1, wherein the longerons have a corrugated cross section.

5. (Original) An elongated truss boom as claimed in claim 4, wherein the corrugated cross section is "L" shaped.

6. (Canceled)

7. (Original) An elongated truss boom as claimed in claim 1, further comprising a self actuation means which biases the moveably coupled battens and the truss boom in an expanded position.

8. (Original) An elongated truss boom as claimed in claim 1, further comprising a mechanically actuated locking means which releases the truss boom for stowage and locks the deployed truss boom in an expanded configuration.

9-15. (Canceled)

16. (Previously Presented) An elongated truss boom as in claim 1, further including a drum for stowing the flattened truss boom by rolling the flattened truss boom into a coil around the drum.

17. (Previously Presented) An elongated truss boom as in claim 1, further including instrumentation attached to fixed battens extending above and below the stowed truss boom so that upon elongating the boom the instrumentation is located at pre-determined points along the boom.



18. (Previously Presented) An elongated truss boom as in claim 1, wherein the longerons have a flat ribbon shape when the boom is stowed and a corrugated cross-sectional shape when the boom is deployed.

19. (Not entered) An elongated truss boom as in claim 1, the truss boom being stowed without a storage container.

20. (Not entered) An elongated truss boom as in claim 1, wherein in a stowed configuration of the truss boom, at least one of the plurality of fixed battens extends beyond a width of an outermost pair of the longerons, the truss boom including instrumentation attached to the at least one fixed batten in the stowed configuration and the instrumentation being positioned beyond the width of the outermost pair of the longerons in the stowed configuration.

21. (New) An elongated truss boom adapted to be flattened and coiled to a stowed configuration comprising:

- a plurality of longerons arranged parallel to and equidistant from a longitudinal axis of the truss boom forming a polygonal cross section normal to the longitudinal axis;

- a plurality of fixed battens; and

- a plurality of moveable battens;

- wherein the fixed battens and the moveable battens are coupled to the longerons to form a plurality of polygonal frame members which are located in a series of planes normal to the longitudinal axis;

- wherein a first and a second longeron of the plurality of longerons are interconnected with at least one of the fixed battens to form a first ladder shaped structure,

- wherein a third and a fourth longeron of the plurality of longerons are interconnected with at least one other of the fixed battens to form a second ladder shaped structure opposing the first ladder shaped structure,

- the first ladder shaped structure being moveably connected by movable battens to the second ladder shaped structure; and

- wherein the first and second longerons are spaced apart from each other less than the third and fourth longerons are spaced apart from each other, so that when the truss boom is

flattened the first ladder shaped structure nests between the third and fourth longerons of the second ladder shaped structure to permit compact stowing of the truss boom.